IL0022-10

APR 19 1985

# U.S. INDUSTRIAL CHEMICALS CO.

Division of National Distillers and Chemical Corporation • P.O. Box 218, Tuscola, Illinois 61953 • (217) 253-3311



April 15, 1985

Mr. Dan Cooza
Ecology and Environment, Inc.
111 West Jackson Blvd.
Chicago, Illinois 60606

Dear Mr. Cooza:

Pursuant to a phone conversation with Mr. Steven Wisbom I am attaching an analysis of fly ash from the U. S. Industrial Chemicals Company Tuscola Illinois power plant. Mr. Wisbom indicated this would be helpful to your firm during the hazard rank scoring you are now performing for USEPA and would supplement information obtained earlier by Mr. Ken Krueger during his visit to our plant.

Very truly yours,

E. C. Alsmeyer

E. C. Alsmeyer
Group Leader

ECA:vl

Att.

USI

GA 1.5A ND

# INTER-OFFICE CORRESPONDENCE

"TO" AND "FROM" ARE TO BE COMPLETED AS TO COMPANY AND LOCATION

Date: June 29, 1983

To: Mr. G. M. Miller

From: E. C. Alsmeyer

Subject: FLY ASH ANALYSES

Fly ash waste, bottom ash waste, slag waste, and flue gas emission control waste generated primarily from the combustion of coal or other fossil fuels are solid waste materials which are specifically excluded by 40 CFR 261.4(b)(4) from being hazardous wastes.

To determine if U.S.I. Tuscola fly ash exhibits any of the characteristics of EP toxicity as indicated by EPA hazardous waste numbers D 004 through D 012 (§261.24(b)), representative samples of this RCRA exempted material were obtained, extracted using the USEPA Extraction and Separation Procedures (45 FR 33127-33128) and analyzed using approved EPA methods.

All analyses, which are presented in Table 1, indicate that the EP toxic (metal) substances are absent from the samples analyzed; or if they are present they are present at concentrations below their analytical level of detection. An analytical assurance standard was evaluated along with the subject samples. This information, which is also included in Table 1 affirms the analytical integrity of this work which was performed by L. H. Rentz.

E. C. Alsmeyer

E. C. Alsmeyer

vl

cc: T. J. Tadler
L. R. Hays/R. R. Kalmar
T. W. McHugh - HSE, Cincinnati
R. J. Spomer/L. H. Rentz

TABLE 1

EXAMINATION OF U.S.I. TUSCOLA POWER PLANT FLY ASH FOR EP TOXICITY CHARACTERISTICS
(All concentrations in milligrams per liter)

| EP Toxicity Contaminant and EPA Hazardous Waste Number | EP Toxic when greater than: - | 5/23/83 (613A)* | 5/24/83 (613B & 613C)* | 5/25/83 (613E)* | 5/26/83 (613D & 613F)* | Analytical Quality Assurance (613G) | | EPA Analytical Method Used on EP Extract |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Actual Value | Value Found | |
| Arsenic - D004 | 5.0 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 0.95 | 206.3 |
| Barium - D005 | 100.0 | <0.1 | <0.1 | <0.1 | <0.1 | 0 | <0.1 | 208.1 |
| Cadmium - D006 | 1.0 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 1.0 | 213.1 |
| Chromium - D007 | 5.0 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 1.0 | 218.1 |
| Lead - D008 | 5.0 | <0.2 | <0.2 | <0.2 | <0.2 | 1.0 | 1.0 | 239.1 |
| Mercury - D009 | 0.2 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | 1.0 | 1.0 | Flameless AA |
| Selenium - D010 | 1.0 | <0.1 | <0.1 | <0.1 | <0.1 | 1.0 | 0.92 | 270.3 |
| Silver - D011 | 5.0 | <0.1 | <0.1 | <0.1 | <0.1 | 0 | <0.1 | 272.1 |

* Designates sample code. When two codes appear duplicate samples were submitted.

ECAlsmeyer/vl
Tech. Dept.
6-29-83

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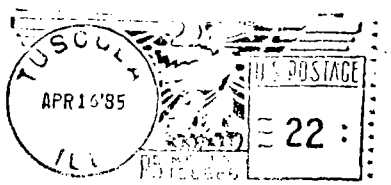


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